

# 2010 Research, Development & Technology Program

## Research Advisory Committee Meeting

### Afternoon Session

Bismarck Comfort Inn  
1030 E Interstate Avenue  
Bismarck, ND  
Monday, November 16, 2009

- 13:00 - 13:05      Opening Remarks & Introductions:
- *Tom Bold, M&R*
  - Research Reports on NDDOT Website:  
<http://www.dot.nd.gov/divisions/materials/researchlist.htm>
- 13:05 – 13:45      Report on Current Internal Research Activities:
- FLEXOGRID™ Bridge Deck Treatment, - *Andrew Mastel, M&R*
  - Evaluation of Anti-Graffiti Coating Systems, - *Rebecca Espinoza, M&R*
  - Reinforced Concrete Pipe Repair, - *Andrew Mastel, M&R*
- 13:45 - 14:45      Report on Completed University Research Projects:
- Evaluation of ND 4.75mm Aggregate for SuperPave Mix, - *Dr. Nabil Suleiman, UND*
  - Use of a Thermal Camera During Asphalt Pavement Construction, - *Dr. Jongchul Song, NDSU*
- 14:45 - 15:00      **Break**
- 15:00 - 16:30      Report on Completed University Research Projects (continued):
- Evaluation of Self Consolidating Concrete (SCC) for Bridge Substructures, - *Dr. Iraj Mamaghani, UND*
  - Analysis of Environmental Sensor Station Deployment Alternatives, - *Leon Osborne, UND Regional Weather Information Center*
  - Performance of Low Permeable Bridge Decks , Bridge Monitoring Report, – *Dr. Charles Moretti, UND*
- 16:30 - 16:45      North Dakota Local Technical Assistance Program & Transportation Technology Transfer, - *Gary Berreth, NDLTAP Director – UGPTI/NDSU*
- 16:45 - 17:00      Daily Wrap-up:

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- 07:45 - 08:00 Assemble in Meeting Room
- 08:00 – 08:40 New Research Requests
- USGS Projects, - *Larry Schwartz, Bridge Division*
    - StreamStats Web Tool – *Tara Williams-Sether, USGS*
    - Stream Crest Study – *Steve Robinson, USGS*
  - Maintenance Decision Support System (MDSS) - *Brad Darr, M&ESD*
- 08:40 – 10:00 Status Reports on Continuing Research & Pooled Fund Studies
- Construction of Crack-Free Bridge Decks – Phase II, - *Larry Schwartz, Bridge*
  - National Concrete Consortium (NCC), - *Clayton Schumaker, M&R*
  - Accelerated Implementation of Intelligent Compaction Technology for Embankment Subgrade Soils, Aggregate Bases, and Asphalt Pavement Material, - *Jon Ketterling, M&R*
  - Earthwork Shrinkage Calculation, - *Matt Luger, M&R*
  - Underwater Inspection of Bridge Substructures Using Underwater Imaging Technology, - *Gary Doerr, Bridge*
  - Aurora, - *Brad Darr, M&ESD*
  - Pacific Northwest Snow Fighters, – Deicing Corrosion Inhibitor and Performance Study, - *Brad Darr, M&ESD*
  - Clear Roads, - *Larry Gangl, Dickinson District*
- 10:00 - 10:15 **Break**
- 10:15 - 11:15 Brainstorming New Research
- 11:15 - 11:55 Proposal Discussion Session (*RAC Members Only*)
- Review of 2009 RAC Recommendations
  - Review of New Proposals
  - Review of 2010 Budget and Funding Discussion
- 11:55 - 12:00 Meeting Wrap-up